

531,909

Rec'd PCT/PTO 19 APR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/531909



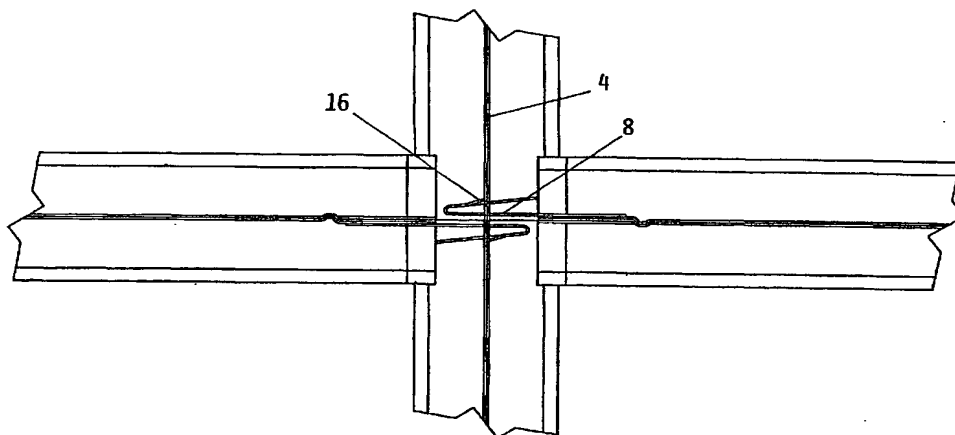
(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/042162 A1

- (51) International Patent Classification⁷: E04B 9/12
- (21) International Application Number: PCT/EP2003/012339
- (22) International Filing Date: 5 November 2003 (05.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
VE2002U000027 8 November 2002 (08.11.2002) IT
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): ATENA S.R.L. [IT/IT]; Via A. De Gasperi, 52, 20020 - Gruaro (IT).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): BARBUIO, Mauro [IT/IT]; Via A. De Gasperi, 52, 30020 - Gruaro (IT).
- (74) Agent: PIOVESANA, Paolo; Corso del Popolo, 70, I-30172 Venezia Mestre (IT).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: IMPROVED COUPLING ELEMENT FOR INVERTED T BEAMS



(57) **Abstract:** An improved coupling element for inverted T beams characterised by comprising at their ends an appendix (2) formed from two portions (8, 10) of different height, the outer portion (10) having the lesser height and being bent to V-shape with the free part (14) comprising a tooth (16), and in their central web (4) at least one aperture (18) having a height substantially corresponding to the height of the outer portion (10), for the insertion of said portion and its stable retention by the tooth and by the edge of the inner portion (8).

WO 2004/042162 A1